Ministry of
Northern Development
and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

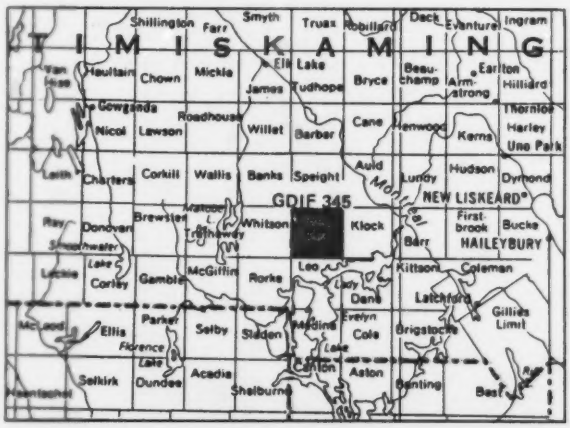
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 345

# VAN NOSTRAND TOWNSHIP

DISTRICT OF TIMISKAMING

Compiled by the Staff of
the Resident Geologist's Office
Cobalt




LOCATION MAP

Scale: 1:1 013 760 or 1 inch to 16 miles

87-03351/

NTS Number 41P/8

Mining Claim Map Number M-255

**STATEMENT:** This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1986: Van Nostrand Township, District of Timiskaming; Ontario Geological Survey, Geological Data Inventory Folio 345, compiled by the Staff of the Resident Geologist's Office, Cobalt, 22 pages and 2 maps.

**Original Compilation by:** Patricia Anderson, March 3, 1986.

| Date | Page Revised | Revised by |
|---|---|---|
| | | |

| Date | Page Revised | Revised by |
|---|---|---|
| | | |

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**ACCOMPANYING MAPS**

Property Location Map - 1 map
Exploration Data Map - 1 map
Map Scale 1: 31 680 or 1 inch to ½ mile

# CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

**If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:**

| CONVERSION FROM SI TO IMPERIAL | | | CONVERSION FROM IMPERIAL TO SI | | |
|---|---|---|---|---|---|
| *SI Unit* | *Multiplied by* | *Gives* | *Imperial Unit* | *Multiplied by* | *Gives* |
| | | **LENGTH** | | | |
| 1 mm | 0.039 37 | inches | 1 inch | **25.4** | mm |
| 1 cm | 0.393 70 | inches | 1 inch | **2.54** | cm |
| 1 m | 3.280 84 | feet | 1 foot | **0.304 8** | m |
| 1 m | 0.049 709 7 | chains | 1 chain | **20.116 8** | m |
| 1 km | 0.621 371 | miles (statute) | 1 mile (statute) | **1.609 344** | km |
| | | **AREA** | | | |
| 1 $cm^2$ | 0.155 0 | square inches | 1 square inch | **6.451 6** | $cm^2$ |
| 1 $m^2$ | 10.763 9 | square feet | 1 square foot | **0.092 903 04** | $m^2$ |
| 1 $km^2$ | 0.386 10 | square miles | 1 square mile | **2.589 988** | $km^2$ |
| 1 ha | 2.471 054 | acres | 1 acre | **0.404 685 6** | ha |
| | | **VOLUME** | | | |
| 1 $cm^3$ | 0.061 02 | cubic inches | 1 cubic inch | **16.387 064** | $cm^3$ |
| 1 $m^3$ | 35.314 7 | cubic feet | 1 cubic foot | **0.028 316 85** | $m^3$ |
| 1 $m^3$ | 1.308 0 | cubic yards | 1 cubic yard | **0.764 555** | $m^3$ |
| | | **CAPACITY** | | | |
| 1 L | 1.759 755 | pints | 1 pint | **0.568 261** | L |
| 1 L | 0.879 877 | quarts | 1 quart | **1.136 522** | L |
| 1 L | 0.219 969 | gallons | 1 gallon | **4.546 090** | L |
| | | **MASS** | | | |
| 1 g | 0.035 273 96 | ounces (avdp) | 1 ounce (avdp) | **28.349 523** | g |
| 1 g | 0.032 150 75 | ounces (troy) | 1 ounce (troy) | **31.103 476 8** | g |
| 1 kg | 2.204 62 | pounds (avdp) | 1 pound (avdp) | **0.453 592 37** | kg |
| 1 kg | 0.001 102 3 | tons (short) | 1 ton (short) | **907.184 74** | kg |
| 1 t | 1.102 311 | tons (short) | 1 ton (short) | **0.907 184 74** | t |
| 1 kg | 0.000 984 21 | tons (long) | 1 ton (long) | **1016.046 908 8** | kg |
| 1 t | 0.984 206 5 | tons (long) | 1 ton (long) | **1.016 046 908 8** | t |
| | | **CONCENTRATION** | | | |
| 1 g/t | 0.029 166 6 | ounce (troy)/ ton (short) | 1 ounce (troy)/ ton (short) | 34.285 714 2 | g/t |
| 1 g/t | 0.583 333 33 | pennyweights/ ton (short) | 1 pennyweight/ ton (short) | 1.714 285 7 | g/t |

**OTHER USEFUL CONVERSION FACTORS**

| | | |
|---|---|---|
| 1 ounce (troy)/ton (short) | 20.0 | pennyweights/ton (short) |
| 1 pennyweight/ton (short) | 0.05 | ounce (troy)/ton (short) |

**One gram(g) per tonne is equivalent to one part per million (1 ppm).**

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

# DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

| | SOURCES OF DATA | Data | Initial |
|---|---|---|---|
| 1 | Resident Geologist's Office Files | Yes | D.P.A. |
| 2 | Assessment Files Research Office, Toronto | No | D.P.A. |
| 3 | ODM General Index; 9 Volumes | Yes | D.P.A. |
| 4 | Catalogue of Airborne Geophysical Surveys (ODM) | Yes | D.P.A. |
| 5 | ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars | Yes | D.P.A. |
| 6 | ODM Industrial Mineral Reports | No | D.P.A. |
| 7 | Bibliography of Post Precambrian Theses - Karrow (ODM MP 1) | No | D.P.A. |
| 8 | Bibliography of Precambrian Theses - Ginn (ODM MP 2) | No | D.P.A. |
| 9 | Newspaper Clippings File | Yes | D.P.A. |
| 10 | GSC Index to Publications | Yes | D.P.A. |
| 11 | OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77 | Yes | D.P.A. |
| 12 | OGS Index Maps | Yes | D.P.A. |
| 13 | Source Mineral Deposit Records (O.G.S.) | Yes | D.P.A. |
| 14 | Author - Subject Articles File | No | D.P.A. |
| 15 | Miscellaneous Papers: ODM & OGS | Yes | D.P.A. |
| 16 | ODM Geological Circulars: OGS Study Series | No | D.P.A. |
| 17 | ODM Preliminary Reports: ODM Bulletins | No | D.P.A. |
| 18 | ODM – OGS Open File Reports | Yes | D.P.A. |
| 19 | OGS Northern Ontario Engineering Geology Terrain Studies | Yes | D.P.A. |
| 20 | OGS Aggregate Resources Inventory Papers | N.A. | D.P.A. |
| 21 | OGS Mineral Potential Maps | No | D.P.A. |
| 22 | Theses on File, Cobalt | No | D.P.A. |
| 23 | Aerial Photographs on File, Toronto | Yes | D.P.A. |
| | | | |

# METALS AND MINERALS REFERENCES LIST

| | | | |
|---|---|---|---|
| Δ anh. . . . . .Anhydrite | Δ fu. . . . . .Fuchsite | Δ Ni. . . . . Nickel | Δ st. . . . . .Stone |
| Δ ank. . . . . .Ankerite | Δ gn. . . . . Galena | Δ Nb . . . . . .Niobium | Δ talc. . . . . .Talc |
| Δ anna . . . . . Annabergite | Δ gt. . . . . Garnet | Δ Pd . . . . . .Palladium | Δ Te . . . . . Tellurium |
| Δ ap. . . . . .Apatite | Δ goe. . . . . .Goethite | Δ peat . . . . . .Peat | Δ td. . . . . Tetrahedrite |
| Δ arg . . . . . Argentite | Δ Au . . . . . Gold | Δ pent . . . . . .Pentlandite | Δ th. . . . . .Thorite |
| Δ As . . . . . .Arsenic | Δ gf. . . . . .Graphite | Δ Pt. . . . . .Platinum | Δ Th . . . . . .Thorium |
| Δ asp . . . . . .Arsenopyrite | Δ gl . . . . . Gravel | Δ py . . . . . .Pyrite | Δ thuc . . . . . Thucholite |
| Δ asb . . . . . .Asbestos | Δ gyp. . . . . Gypsum | Δ pyl . . . . . Pyrochlore | Δ ti . . . . . Titanite |
| Δ ba. . . . . .Barite | Δ hem . . . . . Hematite | Δ pyrl . . . . . .Pyrolusite | Δ Ti. . . . . Titanium |
| Δ be. . . . . .Beryl | Δ il . . . . . .Ilmenite | Δ po . . . . . .Pyrrhotite | Δ tour . . . . . .Tourmaline |
| Δ Bi. . . . . .Bismuth | Δ Fe . . . . . .Iron | Δ q . . . . . .Quartz | Δ trap . . . . . .Trap rock |
| Δ bn . . . . . .Bornite | Δ IF. . . . . Iron Formation | Δ qcv. . . . .Quartz carbonate vein | Δ W. . . . . Tungsten |
| Δ bran . . . . . .Brannerite | Δ jas . . . . . Jasper | Δ ra. . . . . .Radioactive minerals | Δ uran . . . . . Uraninite |
| Δ bruc . . . . . .Brucite | Δ kaol . . . . . .Kaolinite (kaolin) | Δ RE . . . . . .Rare Earths | Δ U . . . . . .Uranium |
| Δ Cd . . . . . Cadmium | Δ ky . . . . . Kyanite | Δ sd. . . . . Sand | Δ verm . . . . . .Vermiculite |
| Δ calc. . . . . Calcite | Δ Pb . . . . . Lead | Δ sgl . . . . . Sand and gravel | Δ Y . . . . . Yttrium |
| Δ carb . . . . . .Carbonate | Δ lim . . . . . Limonite | Δ ss . . . . . .Sandstone | Δ Zn . . . . . .Zinc |
| Δ cel . . . . . .Celestite | Δ Li. . . . . Lithium | Δ scap . . . . . Scapolite | Δ zr. . . . . Zircon |
| Δ cc. . . . . .Chalcocite | Δ mgst . . . . . .Magnesite | Δ shee . . . . . .Scheelite | |
| Δ cp. . . . . .Chalcopyrite | Δ mag . . . . . .Magnetite | Δ serp . . . . . Serpentine | |
| Δ ch. . . . . .Chert | Δ mc . . . . . .Malachite | Δ sh. . . . . .Shale | |
| Δ clay . . . . . .Clay | Δ Mn . . . . . Manganese | Δ sid . . . . . Siderite | |
| ▲ Co . . . . . Cobalt | Δ mb . . . . . .Marble | Δ si . . . . . .Silica | |
| Δ cob. . . . . Cobaltite | Δ mar. . . . . Marcasite | ▲ Ag . . . . . .Silver | |
| Δ cb. . . . . .Columbite | Δ ma . . . . . .Marl | Δ sl . . . . . Slate | |
| Δ Cu . . . . . .Copper | Δ mi . . . . . Mica | Δ sm . . . . . .Smaltite | |
| Δ cor . . . . . Corundum | Δ ml . . . . . .Millerite | Δ sod. . . . . Sodalite | |
| Δ dol . . . . . Dolomite | Δ mo . . . . . Molybdenite | Δ spec . . . . . Specularite | |
| Δ ep. . . . . Epidote | Δ Mo . . . . . .Molybdenum | Δ sp. . . . . .Sphalerite | |
| Δ ery . . . . . Erythrite | Δ mon . . . . . Monazite | Δ spd. . . . . .Spodumene | |
| Δ fel . . . . . .Feldspar | Δ ne. . . . . Nephelite (nepheline) | Δ staur . . . . . .Staurolite | |
| Δ fl . . . . . .Fluorite (flurospar) | Δ nc. . . . . .Niccolite | Δ stib. . . . . Stibnite | |

**Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.** or listed in Drillhole Summary.

VAN NOSTRAND TOWNSHIP

## MINERAL OCCURRENCES

| Map Ref. Letter | Name(s) | Mineralization | Source Mineral Deposit Record | References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports | Additional References and/or Remarks |
|---|---|---|---|---|---|
| A. | Bergeron | Co - major | T-0109 | MRC 10, p. 366, Co 2 | ODM, 1907, Annual Report, vol. 16, pt. 2, p. 126<br>OGS, 1970, OFR 5050, p. 188<br>OGS, 1973, GR 106, p. 65<br>OGS. 1973, Map 2257 |
| B. | Goldie Lake | Ag - major | T-0108 | | OGS, 1973, GR 106, p. 67<br>OGS, 1973, Map 2257 |
| C. | Niccolite Lake | Co - major | T-0111 | | OGS, 1973, GR 106, p. 67<br>OGS, 1973, Map 2257<br>OGS, 1970, OFR 5050, p. 189 |

GDIF FORM NO. 1

VAN NOSTRAND TOWNSHIP 4

| TYPE OF WORK | | Numbers below represent the year in which the work was done; e.g., 68 for 1968. | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT<br>COMPANY/AUTHOR (file number) | | GEOLOGICAL | GEOCHEMICAL | TRENCHING, STRIPPING | DRILLING | ASSAY DATA | UNDERGROUND WORK | PROSPECTUS, NOTES, CORRESPONDENCE | AIRBORNE MAGNETOMETER | AIRBORNE ELECTROMAGNETIC | AIRBORNE RADIOMETRIC | GROUND MAGNETOMETER | GROUND ELECTROMAGNETIC | GROUND RADIOMETRIC | INDUCED POLARIZATON | SELF POTENTIAL | RESISTIVITY | | | |
| 1 | Armstrong, J. - Bergeron claims | | | | ? | | | pre-07 | 51 | | | | | | | | | | | |
| 2 | Goldie Lake Mining & Development Co. Ltd.<br>George Christie | 28 | | 28 | | | 28<br>15 | 28 | | | | | | | | | | | | |
| 3 | Mortimer, C.H. | | | 77<br>82 | | | | | | | | | | | | | | | | |
| 4 | Argentium Silver Mines Ltd. | | | | ? | | | 62<br>66 | | | | | | | | | | | | |
| 5 | Union Miniere Exploration & Mining Corp. Ltd.<br>- Argentium option<br>- reference Whitson Twp. AF, Argentium Silver Mines Ltd. | 68 | | | | | | | 69 | | | | 68 | | | | | | | |

GDIF FORM NO. 2

VAN NOSTRAND TOWNSHIP

## DRILLHOLE SUMMARY

| Map Drilling Location Number | Company Name | Company Drillhole Number | Date Drilled | Bearing Azimuth | Initial Dip of Hole | Thickness of Overburden | Total Length of Hole | Mineralization Noted in Log | Assay Data Included for |
|---|---|---|---|---|---|---|---|---|---|
| | No data available as of March 3, 1986 | | | | | | | | |

GDIF FORM NO. 3

6 VAN NOSTRAND TOWNSHIP

## AIRBORNE GEOPHYSICAL SURVEY DATA

| No. | By / For | Type of Survey | Flight Altitude | Flight Line Direction | Flight Line Spacing |
|---|---|---|---|---|---|
| 5 | By: Canadian Aero Mineral Surveys Ltd.<br>For: Union Miniere Exploration & Mining Co. Ltd. & Argentium Silver Mines Ltd.<br>AFRO #63.2514 | -magnetic using the total magnetic intensity "Flux Gate" saturate core instrument by Gulf Research & Dev. Co. | 250' | N/S | 1/16 mile |

GDIF FORM NO. 4

VAN NOSTRAND TOWNSHIP

| Map Sample Site Reference Number | GEOCHEMICAL SURVEY DATA | | By | Reference |
|---|---|---|---|---|
| | Type of Survey | Analysis For | | |
| | No data available as of March 3, 1986 | | | |

GDIF FORM NO. 5

# MISCELLANEOUS DATA

## AGE DATING

| Site | Method | Material | Reference | Result |
|---|---|---|---|---|
| | No data available as of | | March 3, 1986 | |

LANDSAT COLOUR PHOTO - NTS 31/M

| LS | TR | FR | Date of Imagery | Band | Cycle/Day |
|---|---|---|---|---|---|
| 2 | 20 | 27 | 13/10/81 | C1 | 136/10 |

on file in Cobalt office

GDIF FORM NO.6

# NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Cobalt.

Goldie Lake Mining and Development Co. Ltd.

# ODM GENERAL INDEX SEARCH

**Words searched:** Anvil Lake
Argentium Silver Mines Ltd.
Bergeron Lake
Dominion Mine
Goldie Lake
Goldie Lake Mining & Development Co. Ltd.
Greenwater Lake
Hammer Lake
Kerry Lake
Niccolite Lake
Union Miniere Exploration & Mining Corp. Ltd.
Van Nostrand Township

| Index Volume | Listing: | Report Volume | Part | Page |
|---|---|---|---|---|
| 1 | Anvil Lake, N. of Lady Evelyn Lake | | | |
| | Country around, character | * 16 | 2 | 11 7 |
| | | * 19 | 2 | 155 |
| | Coarse of | * 16 | 2 | 37 |
| | | * 19 | 2 | 118 |
| | Silver near | * 16 | 1 | 8, 45 |
| | | * 16 | 2 | 67 |
| | mining | * 17 | | 18, 48 |
| | Smaltite | * 16 | 2 | 125 |
| | Bergeron Lake, Van Nostrand Twp. | | | |
| | | * 16 | 2 | 124 |
| | | * 19 | 2 | 159 |
| | Goldie Lake, Maple Moutain area | * 24 | 1 | 128 |
| | Greenwater Lake, near Lady Evelyn Lake | * 16 | 2 | 127 |
| | Hammer Lake, Anvil Lake | * 16 | 2 | 127 |
| | Niccolite Lake, Van Nostrand Twp. | * 16 | 2 | 127 |
| | Van Nostrand Township, Timiskaming | | | |
| | Dike, notes | * 19 | 2 | 159 |
| | Quartzite - arkose series | * 16 | 2 | 121 |
| | Silver prospecting | * 18 | 1 | 95 |
| 3 | Goldie Lake Mining and Development Co. Ltd. | | | |
| | Incorporated | 38 | 1 | 54 |

GDIF FORM NO. 8

# ODM GENERAL INDEX SEARCH

Words searched:

| Index Volume | Listing: | Report Volume | Part | Page |
|---|---|---|---|---|
| 8 | Argentium Silver Mines Ltd. | | | |
| | Speight Twp., Timiskaming Dist. | | | |
| | report on Skull Lake Property | GR 106 | | 67-68 |
| | Van Nostrand Twp., Timiskaming Dist. | | | |
| | report on Bergeron Lake Deposit | GR 106 | | 65 |
| | report on Goldie Lake Deposit | GR 106 | | 67 |
| | report on Niccolite Lake Deposit | GR 106 | | 67 |
| | Whitson Twp., Timiskaming Dist. | | | |
| | mining property, report on | MRC 10 | | 364-365 |
| | report on Darby Silver Mine | GR 106 | | 66-67 |
| | report on White Reserve Mine | GR 106 | | 68-73 |
| | Bergeron Lake Deposit, Argentium Silver | | | |
| | Van Nostrand Twp., Timiskaming Dist. | | | |
| | mining property, report on | GR 106 | | 65 |
| | Goldie Lake Deposit, Argentium Silver | | | |
| | Van Nostrand Twp., Timiskaming Dist. | | | |
| | mining property, report on | GR 106 | | 67 |
| | Niccolite Lake Deposit, Argentium Silver | | | |
| | Van Nostrand Twp., Timiskaming Dist. | GR 106 | | 67 |
| | Union Miniere Exploration & Mining Corp. Ltd. | | | |
| | Whitson Twp., Timiskaming Dist. | GR 106 | | 66, 68 |
| | Van Nostrand, Ray, Whitson, Donovan, Speight & Auld Twps., Timiskaming Dist. | | | |
| | Summary of field work, 1969, by W.H. McIlwaine | MP 32 | | 45 - 47 |

# ODM GENERAL INDEX SEARCH

**Words searched:**

| Index Volume | Listing: | Report Volume | Part | Page |
|---|---|---|---|---|
| 8 | Van Nostrand Twp., Timiskaming Dist. | | | |
| | Geology of the Maple Mountain Area | GR 106 | | |
| | silver/cobalt | GR 106 | | 65, 67 |
| | | MRC 10 | | 366 |
| | * Out of Print | | | |

GDIF FORM NO. 8

# ODM GENERAL INDEX SEARCH

Words searched:

| Index Volume | Listing: | Report Volume | Part | Page |
|---|---|---|---|---|
| | | | | |

GDIF FORM NO. 8

## SELECTED REFERENCES

| Author | Date | Title | Reference | Map Scales and/or Report Pages |
|---|---|---|---|---|
| | | REGIONAL GEOLOGICAL COMPILATION MAPS | | |
| Card, K.D. et al | 1971 | Sudbury-Cobalt Sheet; Algoma, Manitoulin, Nipissing, Parry Sound, Sudbury & Timiskaming District, Ontario | ODMNA Map 2188 | 1:253 440 |
| Card, K.D., Lumbers, S.B. | 1977 | Sudbury-Cobalt, NTS 31L/W, 31M/SW, 41I, 41P/S, Sudbury & AL 5 Districts, Ontario | OGS Map 2361 | 1:253 440 |
| | | GEOPHYSICAL MAPS | | |
| | 1956 | Lady Evelyn Lake, aeromagnetic | GSC Map 281G | |
| | 1965 | Lady Evelyn Lake, Ontario, NTS 41P/8 | GSC Map 1504G | 1:63 360 |
| GSC-OGS | 1979 | Airborne gamma-ray spectrometry maps and profiles, NTS 41P, Sudbury & 2 AL Districts, Ontario | OGS Map 80372-80410 | 1:250 000 |
| Gupta, V.K., Wadge, D.R. | 1980 | Bouger Gravity and Generalized Geological Map, Temagami-Englehart Area, Districts of Timiskaming, Nipissing & Sudbury | OGS Map P. 2296 | 1:100 000 |
| | 1981 | Temiskaming-Kapuskasing Region Magnetic Anomaly Map | GSC Map 1563A | 1:1 000 000 |
| Gupta, V.K., Grant, F.S., Boud, A. | 1981 | A Gravity Study in North-Central Ontario, Districts of Sudbury, Nipissing and Timiskaming; in Summary of Field Work, 1981, edited by J. Wood et al, Ontario Geological Survey | OGS MP 100 | No. 26 pp. 160-164 |

GDIF FORM NO. 9

## SELECTED REFERENCES

| Author | Date | Title | Reference | Map Scales and/or Report Pages |
|---|---|---|---|---|
| | | GEOPHYSICAL MAPS | | |
| Gupta, V.K. | 1982 | Gravity and Aeromagneitc Studies in North-Central Ontario: A Progress Report; in Summary of Field Work, 1982, edited by J. Wood et al, Ontario Geological Survey | OGS MP 106 | No. 24 pp. 165-167 |
| Mansinha, L., Wilkinson, D.A. | 1983 | Interpretation of Gravity Data from New Liskeard, Ontario; Ontario Geoscience Research Grant Program, Grant No. 104 | OGS OFR 5440 | |
| GSC | 1984 | Sudbury, Ontario and Quebec, IMW NL 16/17, Magnetic Anomaly Map | GSC Map NL 16/17-M | 1:1 000 000 |
| | | Earth Physics Branch Gravity Map Series | EPB Maps No. 84 and No. 134 | 1:500 000 |
| | | Aeromagnetic Map | MNR Map 7076G | 1:253 440 |
| | | SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING | | |
| | 1951 | Maple Mountain, Ontario, topographic | NTS 41P/SE | 1:126 720 |
| | 1976 | Lady Evelyn Lake, Ontario, topographic | NTS 41P/8 | 1:50 000 |
| | 1977 | Sudbury, Ontario, topographic | NTS 41P | 1:250 000 |
| Roed, M.A. | 1979 | Maple Mountain, NTS 41P/SE | NOEGTS 89 OGS Map 5023 | 1:100 000 |

GDIF FORM NO.9

## SELECTED REFERENCES

| Author | Date | Title | Reference | Map Scales and/or Report Pages |
|---|---|---|---|---|
| | | SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING | | |
| | 1982 | Ontario Basic Map Sheets | MNR Maps<br>20 17 5500 52500<br>20 17 5500 52600<br>20 17 5600 52600<br>20 17 5600 52500 | 1:20 000 |
| | | MINERAL POTENTIAL | | |
| Springer, J. | 1977 | Ontario Mineral Potential, Gogama Sheet & Part of Ville-Marie Sheet, NTS 41P, 31M/W, Timiskaming & Sudbury Districts Ontario | OGS Map P. 1514 | 1:250 000 |
| | | GEOCHEMICAL | | |
| Wolfe, W.J. et al | 1970 | Operation Maple Mountain, Bio-Geochemical Distribution of cobalt in 2nd year Aspen & Birch Twigs, Van Nostrand & Whitson Twps., Timiskaming Districts, Ontario | ODM Map P. 600 | 1:31 680 |
| | | GEOLOGICAL REPORTS AND MAPS | | |
| Barlow, A.E. | 1899 | Report on the Geology and Natural Resources of the Area Included by the Nipissing and Timiskaming Map Sheets, Comprising Portions of the District of Nipissing, Ontario and of the County of Pontiac, Quebec | *GSC Annual Report, vol. x, pt. I<br>*GSC Map 599 | <br>1:253 440 |

GDIF FORM NO. 9

## SELECTED REFERENCES

| Author | Date | Title | Reference | Map Scales and/or Report Pages |
|---|---|---|---|---|
| | | GEOLOGICAL REPORTS AND MAPS | | |
| Miller, W.G. | 1906 | The Cobalt-Nickel Arsenides and Silver Deposits of Temiskaming, Ontario | *OBM Annual Report, 1905, vol. 14, pt. 2 | |
| Barlow, A.E. | 1908 | Second Edition of a Report on the Geology and Natural Resources of the Area Included by the Nipissing and Timiskaming Map Sheets, Comprising Portions of the District of Nipissing, Ontario and of the County of Pontiac, Quebec | *GSC Separate Report 962 | |
| Miller, W.G. | 1908 | The Cobalt-Nickel Arsenides and Silver Deposits of Temiskaming (3rd Edition), Other Temiskaming Cobalt Areas, part of Montreal River and Temagami Forest Reserve | *OBM Annual Report, 1907, vol. 16, pt. 2, ch. 3 | pp. 117-128 |
| | | | OBM Map 16f | 1:63 360 |
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| | | * Out of Print | | |

## SELECTED REFERENCES

| Author | Date | Title | Reference | Map Scales and/or Report Pages |
|---|---|---|---|---|
| | | | | |

GDIF FORM NO.9

# NOTES AND ADDENDA

The exploration data map shows only the most important minerals found at each site. All the minerals noted are listed in the mineral occurrences or the drill hole data.

On the maps, only areas for which work has been submitted to the Ministry are shown and thus a company may hold, or have held in the past, more ground than is shown.

The township was closed to staking in 1978 due to the Bear Island Indian Caution.

AIR PHOTOS - on file in Toronto

Only 1977 photos are available for viewing at the Public Service Centre, Rm. 1640, Whitney Block.

Photos can also be ordered from here for the years 1946, 1958 and 1970.

| Year | Roll | Strip | Photo |
|---|---|---|---|
| 1946 | 206 | 111 | 26-33 |
| | 219 | 112 | 8-15 |
| | 57 | 113 | 1-7 |
| | 53 | 114 | 107-115 |
| | 51 | 115 | 53-60 |
| 1958R | 121 | 4721 | 262-268 |
| 1958R | 121 | 4720 | 230-234 |
| 1958 | 41 | 4720 | 124-127 |
| | 18 | 4719 | 58-65 |
| | 18 | 4718 | 123-130 |
| | 19 | 4717 | 130-134 |
| | 18 | 4717 | 165-170 |
| 1970 | 44 | 4721 | 182-189 |
| | 19 | 4720 | 265-272 |
| | 19 | 4719 | 172-179 |
| | 19 | 4718 | 84-90 |
| | 30 | 4717 | 263-267 |
| | 41 | 4717 | 60-64 |
| 1977 | 45 | 4721 | 3-9 |
| | 2 | 4720 | 44-51 |
| | 45 | 4719 | 90-97 |
| | 3 | 4718 | 44-50 |
| | 3 | 4717 | 129-135 |

Ministry of Northern Development and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 345

(Map 1 of 2)

# VAN NOSTRAND TOWNSHIP

DISTRICT OF TIMISKAMING

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

Ministry of Northern Development and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 345

(Map 1 of 2)

# VAN NOSTRAND TOWNSHIP

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Kilometre 0.5 0 0.5 1 Kilometre

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PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 345

(Map 1 of 2)

# VAN NOSTRAND TOWNSHIP

DISTRICT OF TIMISKAMING

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

## EXPLORATION DATA FILE AREAS

■ ① ⑥ Reference number is always inside work area outlined. See listing in text pages.

□ x ④ Small area exploration.

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 345

(Map 1 of 2)

# VAN NOSTRAND TOWNSHIP

DISTRICT OF TIMISKAMING

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

EXPLORATION DATA FILE AREAS

■ ① ⑥ Reference number is always inside work area outlined. See listing in text pages.

□ x ④ Small area exploration.

TYPES OF DATA SHOWN ON THIS MAP

## GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

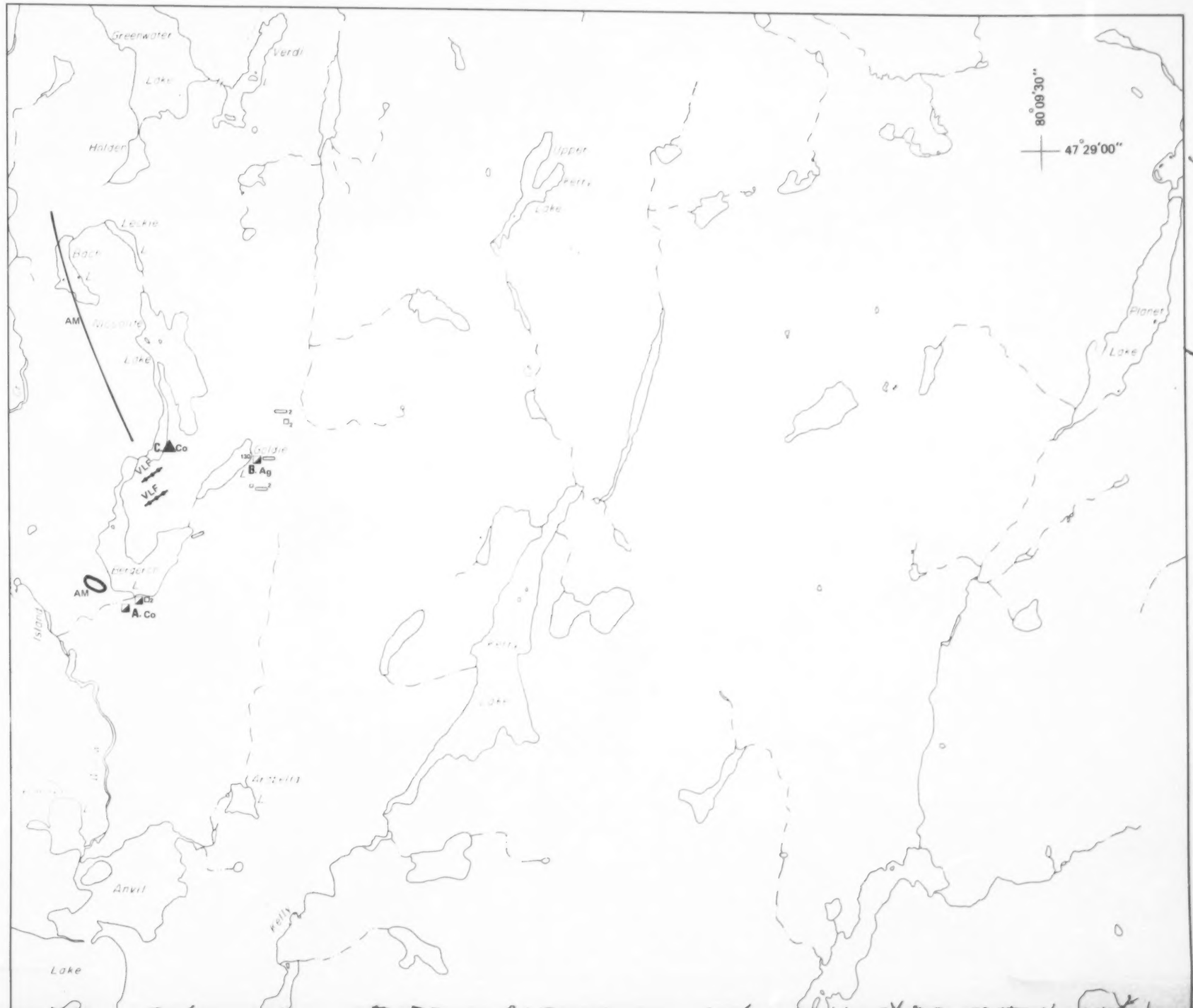
- ☐ Geochemical sample site, with reference number
- ☐ Area of geochemical sampling, with reference number
- ☐ Age dating material sampling site, with reference number

## GEOPHYSICAL ANOMALIES

- ■ AM — Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly
  Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly
  Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- ☐ ARA — Airborne radiometric anomaly
- ☐ M — Ground magnetic anomaly
- ■ VL — Ground electromagnetic anomaly
  ( VL - Vertical loop; HL - Horizonal loop;
  VLF - Very low freq; Turam; JEM -
  Crone Em - 16 )
- ☐ RA — Ground radiometric anomaly
- ☐ IP — Induced polarization anomaly
- ☐ SP — Self potential anomaly
- ☐ AFMAG — Audio-frequency magnetic anomaly
  (total intensity)
- ☐ R — Resistivity anomaly
- ☐ GR — Gravity anomaly

## MISCELLANEOUS DATA

- ■ Number of closely spaced trenches and pits
- ☐ Adit
- ☐ Rock quarry
- ☐ Sand and/or gravel pit



Ministry of Northern Development and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 345

(Map 2 of 2)

# VAN NOSTRAND TOWNSHIP

DISTRICT OF TIMISKAMING

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

## GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

### MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized float with reference letter

### DRILLHOLE

- Location of single drillhole, with reference number
- Location of closely spaced group of drillholes, with reference number
- Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number

## GEOPHYSICAL ANOMALIES

- ■ AM — Airborne magnetic anomaly
- □ — Airborne electromagnetic anomaly
  Length of anomaly along flight line
- □ — Airborne electromagnetic anomaly
  Location of anomaly along flight line
- □ — Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- □ ARA — Airborne radiometric anomaly
- □ M — Ground magnetic anomaly
- ■ VL — Ground electromagnetic anomaly
  ( VL - Vertical loop; HL - Horizonal loop;
  VLF - Very low freq; Turam; JEM -
  Crone Em - 16 )
- □ RA — Ground radiometric anomaly
- □ IP — Induced polarization anomaly
- □ SP — Self potential anomaly
- □ AFMAG — Audio-frequency magnetic anomaly
  (total intensity)
- □ R — Resistivity anomaly
- □ GR — Gravity anomaly

## MISCELLANEOUS DATA

- ■ 2 — Number of closely spaced trenches and pits
- □ — Adit
- □ — Open pit
- □ — Rock quarry
- □ — Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 345

(Map 2 of 2)

# VAN NOSTRAND TOWNSHIP

## DISTRICT OF TIMISKAMING

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

## GEOLOGICAL AND MINING SYMBOLS

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- □ Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- □ cp A. — Mineralized float with reference letter

### DRILLHOLE

- □ ²• — Location of single drillhole, with reference number
- □ ²◉ — Location of closely spaced group of drillholes, with reference number
- □ ²① — Drillhole, exact location uncertain, with reference number
- □ — Property with underground drillholes in this general area, with reference number
- □ ²○ — Property with drillholes which have not been plotted on map, with reference number
- □ ²⊕ — Reverse circulation drillhole; churn drilling, with reference number